

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Ed Folts, J. Gomez, John LeRose

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FROM: James Dahlberg

Checked:

: A753

DETAILS:

Below are the results from the recent surveys of the spectrometer collimator slits. For comparison, the results from the previous survey performed in September 2000 are included. The coordinate systems were established using Q1 and collimator box fiducial values from the previous survey, which are with respect to the centerline of the dipole. The numbers shown represent the location (in mm) of the target with respect to its ideal position. A negative X is to the beam right, and positive Y is high.

| | Del X | Del Y | Encoder |
|-----------------|--------------|--------------|------------------------|
| HADRON | | | |
| Large Slit | 2.30 | -0.87 | (Nominal Sept 2000) |
| Large Slit | 2.30 | 0.00 | 6141(Final Sept 2000) |
| Large Slit | 2.45 | -2.80 | 6150(Current nominal) |
| Large Slit | 2.65 | -1.86 | 6141 |
| Large Slit | 2.72 | 0.11 | 6119 |
| Sieve Slit | 0.72 | -1.29 | (Nominal Sept 2000) |
| Sieve Slit | 0.76 | 0.00 | 3627 (Final Sept 2000) |
| Sieve Slit | 1.02 | -3.46 | 3640 (Current nominal) |
| Sieve Slit | 1.01 | -2.09 | 3627 |
| Sieve Slit | 1.06 | -0.07 | 3605 |
| ELECTRON | | | |
| Large Slit | -1.87 | 4.34 | (Nominal Sept 2000) |
| Large Slit | -1.88 | 0.00 | 6212 (Final Sept 2000) |
| Large Slit | -1.54 | -1.47 | 6170 (Current nominal) |
| Large Slit | -1.54 | -5.61 | 6212 |
| Large Slit | -1.55 | -0.02 | 6155 |
| Sieve Slit | -0.54 | 3.68 | (Nominal Sept 2000) |
| Sieve Slit | -0.56 | 0.00 | 3695 (Final Sept 2000) |
| Sieve Slit | -0.19 | -2.42 | 3660 (current nominal) |
| Sieve Slit | -0.14 | -5.80 | 3695 |
| Sieve Slit | -0.21 | 0.02 | 3637 |